Monday, 5/26/2008 1:09:54 PM

: 13099

Chantal Lavoie

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number

: 39498

S.O. No. ;

Type

**Estimate Number** 

P.O. Number

This Issue : 5/26/2008

Prsht Rev. : NC

First Issue : // : 38506

Previous Run

Written By

Comment

Checked & Approved By

: THERMOFORMING

07/12/13 DL verified by:DD

Material Due Date

**Drawing Name** 

Part Number

**Drawing Number** 

Project Number

**Drawing Revision** 

: 5/30/2008

: D36563

: 00204

: D3656 REV A

Qty:

: PANEL-350 FWD CANOPY

4 Um:

Each

**Additional Product** 

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

MLEXS093F600607

GE PLASTICS LEXAN SHEET



Comment: Qty.:

34.6600 sf(s)/Unit Total: 138.6400 sf(s)

GE PLASTICS LEXAN SHEET

M107574 batch:

81.20.80

2.0

HAND FINISH TH

HAND FINISHING THERMOFORMING





Comment: HAND FINISHING THERMOFORMING

1) Cut Blanks to fit frame size 3.0

THERMOFORMING MACHINE



Comment: THERMOFORMING MACHINE

Thermoform as per Dwg. D3656-3 and Folio FTA 016 using tool DT8987

Dwg. Rev. Folio Rev.

4.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE

Visually inspect for proper formation of each part



### **Dart Aerospace Ltd**

W/O:		WORK ORDER CH	ANGES				
DATE	STEP	P PROCEDURE CHANGE		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		<u>.</u>					
		·					

Part No: <u>D 3656-3</u>	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date: 💇	y alas
			QA: N/C C	losed:	Date:	

NCR: 30	7498	W	ORK OR	DER NON-CONFORMANCE	E (NCR)			
DATE	STEP	Description of NC		Corrective Action Section B		Verification	Approval	Approval
		Section A	Initial Chief Eng	Action Description  Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
8,06.18	3	Unit did not dorm.  pulled out of clamps		Scrap & Replace.	of all			
		RC. Sheet was not	LONGE	BE MIGHT	Ø), puri	volula	besur	oslælg
		Perlety certero po He molo.					//	
		He molD.	Posicur	<del></del>		oslocka	Aswa	osloolee
		RC: New Developme	nt.					
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NOTE: Date & initial all entries

Date: Monday, 5/26/2008 1:09:54 PM User: Chantal Lavoie **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: PANEL-350 FWD CANOPY Job Number: 39498 Part Number: D36563 Job Number: Seq. #: **Machine Or Operation: Description:** 5.0 QC8 SECOND CHECK Comment: SECOND CHECK 6.0 HAND FINISH HAND FINISHING THERMOFORMING Comment: HAND FINISHING THERMOFORMING 1) Trim to Finished Dimensions as per dwg D3656 7.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE PTO Comment: INSPECT PARTS AS THEY COME OFF MACHINE Check dimensions to ensure conformity to drawing tolerances. 8.0 QC5 INSPECT WORK TO CURRENT STEF Comment: INSPECT WORK TO CURRENT STEP 9.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stos Location: 10.0 QC21 FINAL INSPECTION/W/O RELEA Comment: FINAL INSPECTION/W/O RELEASE Job Completion

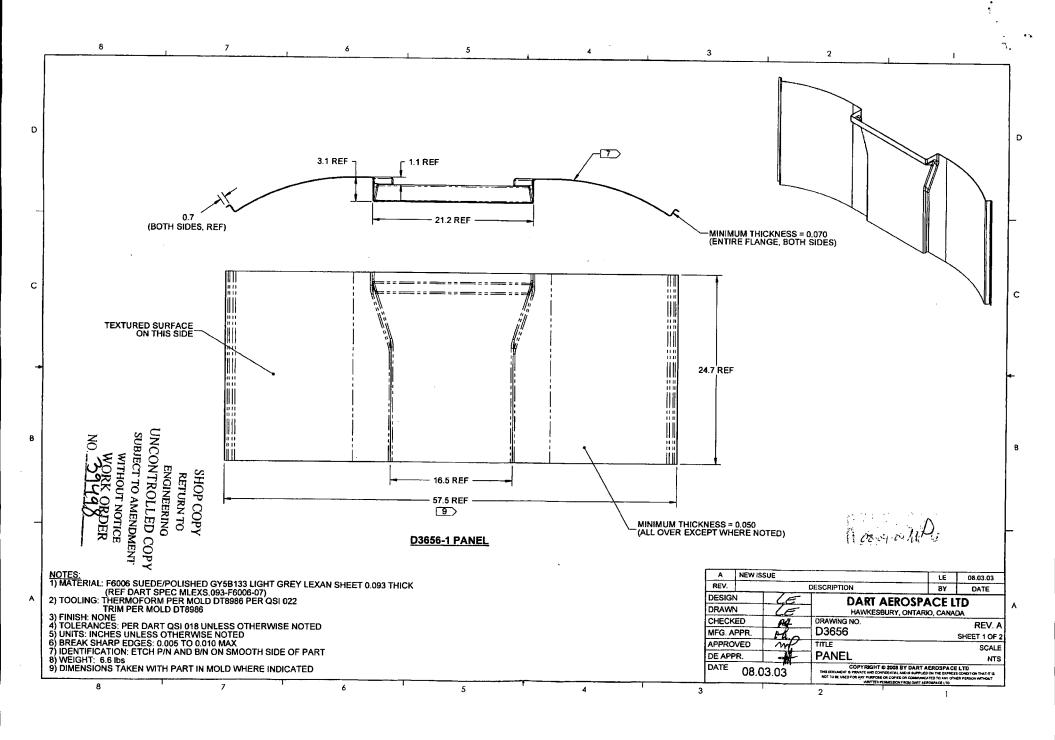
## **Dart Aerospace Ltd**

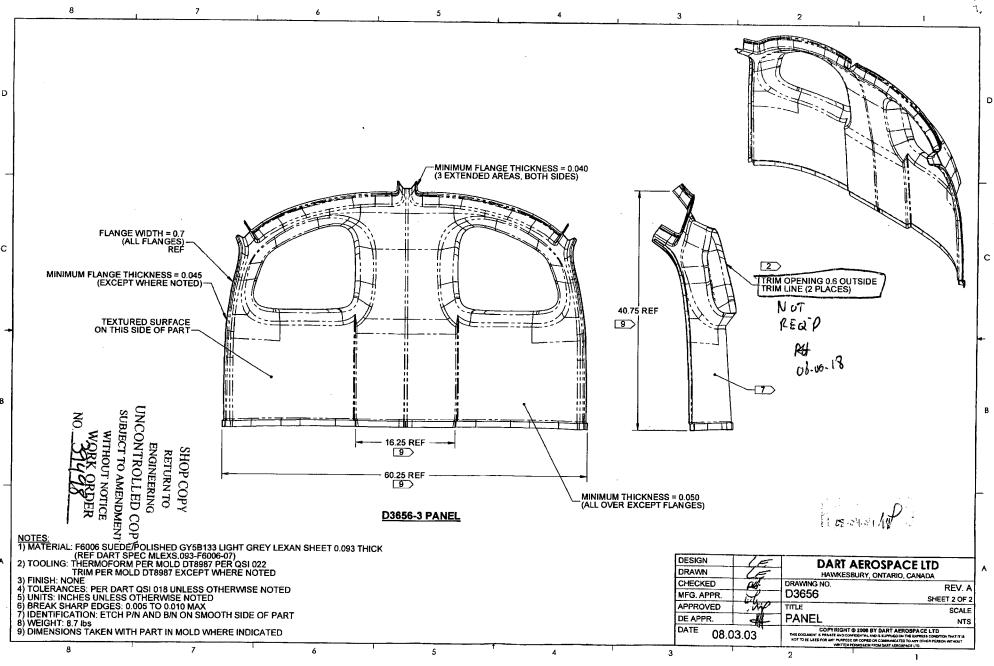
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
08.06.19	7	TRIMMING OF 03655-3 (see DNG 03655 PG 2 ZUNE C-2) for ceiling window not required.  PERMANENT CHANGE	f	01.06.14	14	08.06.19 Q 31 042 (SEE ATTINUED)	reloche
							0 0

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
			QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	A			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
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NOTE: Date & initial all entries





DART AEROSPACE LTD	WORK ORDER:	39498	
Description:Forward Canopy	Part Number:	<i>i</i> √ D3656-	-3
Inspection Dwg: 3653-3 Rev: 人		Page 1 d	

First Article Prototype

(Step 4) Thermoforming Visual Inspection Sign-off

Description	Initial
Acceptable shape definition	VE
Free of visual flaws (bumps, cracks, voids, etc.	V 3 5

# (Step 6) Trimming FAI Checklist

Inspect dimensions highlighted on inspection sheet drawing \_\_\_\_\_\_Rev. A and record below

Drawing	Tolerance	Actual	Accept	Reject	Method of	Comments
Dimension		Dimension			Inspection	
40.75"	0.100"	40.7	/		TADE	
60.25"	0.100"	60.25	-		TAPE	
0.45" Thickness	Min	. 51	~		jern	
0.40" Thickness	Min	.59	レ		vem	
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Measu	red by: 53	, ,	Audited by:	Protot	ype Approval:	NI	
	Date: 08/0	06/18	Date: 35 06 G		Date:	U	
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Rev	Date	Change			Revised by	Appro	
		New Issue					

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DART AEROSPACE LTD	WORK ORDER:	39498	
Description:Forward Canopy	Part Number:	3 D3656-	-3
Inspection Dwg: \( \) 3656 3 Rev: \( \)		Page 1 c	

First Article Prototype

(Step 4) Thermoforming Visual Inspection Sign-off

Description	Initia
Acceptable shape definition	
Free of visual flaws (bumps, cracks, voids, etc.	V 3
	V

### (Step 6) Trimming FAI Checklist

Inspect dimensions highlighted on inspection sheet drawing \_\_\_\_\_Rev. \( \sum\_{\text{and}} \) and record below

Drawing	Tolerance	Actual	Accept	Reject	Method of	Comn	ts
Dimension		Dimension			Inspection	İ	
							. —
40.75"	0.100"	40.75			Tare		8_
60.25"	0.100"	60-25			TARE		
0.45" Thickness	Min	.57	V		Uarn		
0.40" Thickness	Min	17	<b>V</b>		vern		
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	Date: 08	06/18	Date:	08/06/5	Date:	(2)
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		New Issue				

DART AEROSPACE LTD	WORK ORDER:	39498	
DART ALROST AGE LID			2
Description:Forward Canopy	Part Number:	2· D3656-	
Inspection Dwg: 3656-3 Rev:A		Page 1 c	

First Article Prototype

(Step 4) Thermoforming Visual Inspection Sign-off

Description	Initia
Acceptable shape definition	
Free of visual flaws (bumps, cracks, voids, etc.	£

# (Step 6) Trimming FAI Checklist

Inspect dimensions highlighted on inspection sheet drawing \_\_\_\_\_

\_Rev. <u>4</u> and record below

Comm	Method of	Reject	Accept	Actual	Tolerance	Drawing
	Inspection			Dimension		Dimension
	Tare_			40.75	0.100"	40.75"
	Dare			60.25	0.100"	60.25"
	ven			57	Min	0.45" Thickness
	_Jen_			.52	Min	0.40" Thickness
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Audited by: Date: 0000019

Prototype Approval: Date:

Rev Date Change Revised by Appro

?		105
	WORK ORDER:	39498
DART AEROSPACE LTD		2
	Part Number:	D3656-
Description:Forward Canopy		Page 1 c
Inspection Dwg: \$3656-3 Rev:		

Prototype First Article

(Step 4) Thermoforming Visual Inspection Sign-off

	Initia
Description	7
Acceptable shape definition	713
Free of visual flaws (bumps, cracks, voids, etc.	

# (Step 6) Trimming FAI Checklist

Inspect dimensions highlighted on inspection sheet drawing \_\_\_\_\_\_Rev. \_\_\_\_and record below

Drawing	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
40.75" 60.25" 0.45" Thickness 0.40" Thickness	0.100" 0.100" Min Min	\$\frac{\psi_0.7}{60.2} \frac{\psi_0.2}{.}			Tane Tane Jean Jean	

Measured by: Date: Oslo6 18 Date: Da	(4)
Revised by	Appro
Rev Date Change New Issue	

#### **Peter Hum**

From:

David Shepherd [dshepherd@dartaero.com]

Sent:

Wednesday, June 18, 2008 3:30 PM

To:

'Peter Hum'

Cc:

'Bill Beckett'; 'Mike Petsche'; 'Daryl Leger'

Subject:

RE: Deviation for permanent change on D3656-3 Ceiling Panel - D350-766

OK with me. Update dwg and IIN accordingly.

David

From: Peter Hum [mailto:phum@dartaero.com] **Sent:** Wednesday, June 18, 2008 1:18 PM

To: David Shepherd

Cc: Bill Beckett; Mike Petsche; Daryl Leger

Subject: Deviation for permanent change on D3656-3 Ceiling Panel - D350-766

David,

Production is making the D3656-3 Ceiling Panel for the D350-766 interiors. Per the drawing, the openings for the aircraft ceiling windows (i.e. skylights) are to be trimmed here @ Dart. See attached drawing (Zone C2).

Production has been determined that the trimming of the openings is time-consuming. In speaking with Daryl, even if we trimmed the openings per the drawing the customer might still need to trim the opening even more to fit his roof (this is based on the fit that was done on the A-Star we have here). It should be noted, that we haven't tried this install or received any feedback from a customer in the field that has installed these.

If the opening is not trimmed @ Dart:

a) The customer/installer would have to trim the entire opening from scratch. The Installation Instructions only indicates that this panel be centered on the aircraft ceiling windows (see attached excerpt). There is no indication that this area needs to be trimmed by the customer.

Therefore, is it acceptable to NOT trim the openings?

Peter

No virus found in this incoming message.

Checked by AVG. Version: 7.5.524 / Virus Database: 270.4.0/1507 - Release Date: 6/18/2008 7:09 AM

No virus found in this outgoing message.

Version: 7.5.524 / Virus Database: 270.4.0/1507 - Release Date: 6/18/2008 7:09 AM